

ezSWD125IM.4/C



SWD
Safety Wheel Drive

- ✓ ez-Wheel® ezSWD125IM.4/C - Series SWD®
- ✓ safety wheel drive with industrial rubber, medium duty
- ✓ suitable for:
 - mobile robotics
 - AGVs
 - AMRs



Technical characteristics

Diameter	125 mm
Type of tyre	PU 80 sh.A - Flat profile
Speed range (traction)	0 to 9 km/h
Peak pushing effort	20 daN Moves 500 kg
Maximum rolling speed	10 km/h
Maximum vertical load	250 kg 200 kg at 6 km/h 150 kg at 9 km/h
Battery capacity	-
Option(s)	Parking brake /B

Component specifications

Motor



Technology	BLDC PM
Gearbox	1-stage planetary ratio 4:1 exact value 62/17
Indicative lifespan*	5 000 h 1 500 000 starts/stops
Nominal speed	300 rpm (7 km/h)
Nominal power	185 W (S1)
Peak torque	12 Nm

Safety features



Motor disconnection	STO SIL3/PLc
Motion control	SLS, SDI SIL2/PLd
Braking	SBC SIL2/PLd
Encoder	30 ppr (motor axis) SIL2/PLd
Interface	CANopen Safety®

Conditions of use



Temperatures	0 to +40 °C
IP index	IP66
Maintenance period*	5 years

The product can be used inside or outside, over a wide range of temperatures. The components do not need any inspection or maintenance over the product's whole lifespan.

Weight



Product weight	7 kg approx.
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Thanks to the reinforced cast iron housing and wheel hub, the wheel can withstand knocks and severe vibration and enables the wheel to carry some load.

All values are subject to changes without prior notice.

*: Values for reference, based on standard condition testing, may vary with different application cases.

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